

WALLA WALLA COST ENGINEERING MANDATORY CENTER OF EXPERTISE

COST AGENCY TECHNICAL REVIEW

CERTIFICATION STATEMENT

Project No. 105638

SPK – Sutter Basin Project

Two Alternatives for the Sutter Basin Project, as presented by Sacramento District, have undergone a successful Cost Agency Technical Review (Cost ATR), performed by the Walla Walla District Cost Engineering Mandatory Center of Expertise (Cost MCX) team. The Cost ATR included study of the project scopes, report, cost estimates, schedules, escalation, and risk-based contingencies. This certification signifies the products meet the quality standards as prescribed in ER 1110-2-1150 Engineering and Design for Civil Works Projects and ER 1110-2-1302 Civil Works Cost Engineering.

As of October 10, 2013, the Cost MCX certifies the estimated total project cost of the two alternatives:

ALTERNATIVE SB-7

FY 2014 Price Level: \$391,840,000

Fully Funded Amount: \$440,530,000

ALTERNATIVE SB-8

FY 2014 Price Level: \$688,930,000

Fully Funded Amount: \$791,970,000

It remains the responsibility of the District to correctly reflect these cost values within the Final Report and to implement effective project management controls and implementation procedures including risk management throughout the life of the project.



**US Army Corps
of Engineers®**

**Kim C. Callan, PE, CCE, PM1
Chief, Cost Engineering MCX
Walla Walla District**

*****TOTAL PROJECT COST SUMMARY*****														10/10/2013
THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE DRAFT FEASIBILITY REPORT, ALT. SB-7														
PROJECT: Sutter Basin TPCS														
LOCATION: CALIFORNIA														
U. S. ARMY CORPS OF ENGINEER, SACRAMENTO DISTRICT														
P.O.C.: JEREMIAH A. FROST, CHIEF, COST ENGINEERING SECTION														
Current MCACES Estimate Prepared: 25-Jul-2013														
Effective Price Level (EPL): 1-Oct-2013														
WB NO.	Civil Works FEATURE DESCRIPTION	ESTIMATED COST				PROGRAM YEAR(BUDGET EC) 2014 EFF. PRICE LEVEL DATE:1-Oct-2013 PROJECT FIRST COST				TOTAL PROJECT COST (FULLY FUNDED)				
		COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	ESC. (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SPENT THRU: 1-Oct-2013 COST (\$K)	ESC. MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
		Contingency Applied To Remaining Cost Only												
FEDERAL COSTS														
6	FISH & WILDLIFE FACILITIES	5,032	1,006	20	6,038	0.00	5,032	1,006	6,038	0	12	5,611	1,122	6,733
11	LEVEES & FLOODWALLS	176,205	63,717	36	239,922	0.00	176,205	63,717	239,922	0	11	196,085	70,906	266,991
18	CULT. RESRC. PRESERV. (1)	1,655	598		2,253		1,655	598	2,253	0		1,841	665	2,506
	Data Recovery	1,200	433		1,633	0.00	1,200	433	1,633	0		1,334	482	1,816
	Inventory/Evaluation/Mitigation Costs	455	165	36	620	0.00	455	165	620	0	11	507	183	690
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		182,892	65,321		248,213		182,892	65,321	248,213	0		203,537	72,693	276,230
1	LANDS & DAMAGES, Admin (2)	6,952	348	5	7,300	0.00	6,952	348	7,300	0	17	8,168	408	8,576
30	PLAN/ENGINEERING/DESIGN	32,622	11,797	36	44,419	0.00	32,622	11,797	44,419	0	18	38,534	13,934	52,468
31	CONSTRUCTION MANAGE'MT	15,406	5,570	36	20,976	0.00	15,406	5,570	20,976	0	23	18,943	6,849	25,792
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		237,872	83,036		320,908		237,872	83,036	320,908	0		269,182	93,884	363,066
NON-FEDERAL CONTRIBUTION (-)		-48,533	-17,105		-65,638		-48,533	-17,105	-65,638	0		-56,289	-19,847	-76,136
TOTAL FEDERAL COSTS		\$189,339	\$65,931		\$255,270		\$189,339	\$65,931	\$255,270	\$0		\$212,893	\$74,037	\$286,930
NON-FEDERAL COSTS														
1	LANDS AND DAMAGES	31,811	10,579	33	42,390	0.00	31,811	10,579	42,390	0	8.5	34,523	11,481	46,004
2	RELOCATIONS	20,962	7,580		28,542		20,962	7,580	28,542	0		23,105	8,355	31,460
	Relocations Construction Cost	16,376	5,922	36	22,298	0.00	16,376	5,922	22,298	0	10	18,074	6,536	24,610
	Plan/Engineering/Design	2,948	1,066	36	4,014	0.00	2,948	1,066	4,014	0	8.8	3,209	1,160	4,369
	Construction Mangement	1,638	592	36	2,230	0.00	1,638	592	2,230	0	11	1,822	659	2,481
SUBTOTAL NON-FEDERAL		52,773	18,159		70,932		52,773	18,159	70,932	0		57,628	19,836	77,464
NON-FEDERAL CONTRIBUTION (+)		48,533	17,105		65,638		48,533	17,105	65,638	0		56,289	19,847	76,136
TOTAL NON-FEDERAL COSTS		\$101,306	\$35,264		\$136,570		\$101,306	\$35,264	\$136,570	\$0		\$113,917	\$39,683	\$153,600
TOTAL FEDERAL AND NON-FEDERAL COSTS		\$290,645	\$101,195		\$391,840		\$290,645	\$101,195	\$391,840	\$0		\$326,810	\$113,720	\$440,530
GENERAL NOTES														
(1) Cultural Resources Preservation costs was provided by Cultural Resources Archaeologist.														
(2) Federal administrative costs for non-Federal land acquisition.														
(3) The Fully Funded cost estimate was prepared in compliance with Indexes used from CWCCIS reflecting OMB future rates Mar. 31, 2013														
(4) 01 Account for Land and Damages cost are from Real Estates.														
(5) 06 Account Fish and Wildlife Cost was provided by SPK Environmental Planning.														
(6) 30 Account Planning, Engineering and Design and 31 Account Construction Management cost was provided by its respective organizations.														
CONTINGENCY RATIONALE														
(A) CONTINGENCIES USED WAS DERIVED BY THE COST RISK ANALYSIS PROCESS AND IS BASED ON A 80% CONFIDENCE LEVEL														
CHIEF, COST ENGINEERING										TOTAL FEDERAL COSTS		\$286,930		
PROJECT MANAGER										TOTAL NON-FEDERAL COSTS		\$153,600		
CHIEF, REAL ESTATE										THE MAXIMUM PROJECT COSTS		\$440,530		

*****TOTAL PROJECT COST SUMMARY*****														10/10/2013
THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE DRAFT FEASIBILITY REPORT, ALT. SB-8														
PROJECT: Sutter Basin TPCS														U. S. ARMY CORPS OF ENGINEER, SACRAMENTO DISTRICT
LOCATION: CALIFORNIA														P.O.C.: JEREMIAH A. FROST, CHIEF, COST ENGINEERING SECTION
Current MCACES Estimate Prepared: 25-Jul-2013														
Effective Price Level (EPL): 1-Oct-2013														
WB NO.	Civil Works FEATURE DESCRIPTION	COST (\$K)	ESTIMATED COST			ESC. (%)	PROJECT FIRST COST			TOTAL PROJECT COST (FULLY FUNDED)				
			CNTG (\$K)	CNTG (%)	TOTAL (\$K)		COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SPENT THRU: 1-Oct-2013 COST (\$K)	ESC. MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
FEDERAL COSTS		Contingency Applied To Remaining Cost Only												
6	FISH & WILDLIFE FACILITIES	6,330	1,265	20	7,595	0.00	6,330	1,265	7,595	0	14	7,226	1,445	8,671
11	LEVEES & FLOODWALLS	306,367	106,488	35	412,855	0.00	306,367	106,488	412,855	0	13	347,604	120,821	468,425
18	CULT. RESRC. PRESERV. (1)	3,030	1,076		4,106		3,030	1,076	4,106			3,399	1,207	4,606
	Federal Obligations from NED Cost.	1,655	598		2,253		1,655	598	2,253			1,841	665	2,506
	Data Recovery	1,200	433		1,633		1,200	433	1,633	0		1,334	482	1,816
	Inventory/Evaluation/Mitigation Costs	455	165		620		455	165	620	0		507	183	690
	Cost Beyond NED Cost.	1,375	478		1,853		1,375	478	1,853	0		1,558	542	2,100
	Data Recovery	1,000	348	35	1,348	0.00	1,000	348	1,348	0	13	1,134	394	1,528
	Inventory/Evaluation/Mitigation Costs	375	130	35	505	0.00	375	130	505	0	13	424	148	572
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		315,727	108,829		424,556		315,727	108,829	424,556	0		358,229	123,473	481,702
1	LANDS & DAMAGES, Admin (2)	11,143	557	5	11,700	0.00	11,143	557	11,700	0	22	13,549	677	14,226
30	PLAN/ENGINEERING/DESIGN	56,285	19,565	35	75,850	0.00	56,285	19,565	75,850	0	22	68,804	23,916	92,720
31	CONSTRUCTION MANAGE/MT	26,580	9,239	35	35,819	0.00	26,580	9,239	35,819	0	27	33,791	11,746	45,537
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		409,735	138,190		547,925		409,735	138,190	547,925	0		474,373	159,812	634,185
NON-FEDERAL CONTRIBUTION(-)		-220,396	-72,259		-292,655		-220,396	-72,259	-292,655	0		-261,480	-85,775	-347,255
TOTAL FEDERAL NED COSTS		\$189,339	\$65,931		\$255,270		\$189,339	\$65,931	\$255,270	\$0		\$212,893	\$74,037	\$286,930
NON-FEDERAL COSTS														
1	LANDS AND DAMAGES	41,795	11,751	28	53,546	0.00	41,795	11,751	53,546	0	11	46,222	12,995	59,217
2	RELOCATIONS	64,900	22,559		87,459		64,900	22,559	87,459	0		73,143	25,425	98,568
	Relocations Construction Cost	50,703	17,624	35	68,327	0.00	50,703	17,624	68,327	0	13	57,271	19,907	77,178
	Plan/Engineering/Design	9,127	3,172	35	12,299	0.00	9,127	3,172	12,299	0	11	10,123	3,519	13,642
	Construction Management	5,070	1,763	35	6,833	0.00	5,070	1,763	6,833	0	13	5,749	1,999	7,748
SUBTOTAL NON-FEDERAL		106,695	34,310		141,005		106,695	34,310	141,005	0		119,365	38,420	157,785
NON-FEDERAL CONTRIBUTION (+)		220,396	72,259		292,655		220,396	72,259	292,655	0		261,480	85,775	347,255
	Non-Federal Contribution - NED	48,533	17,105		65,638		48,533	17,105	65,638	0		56,289	19,847	76,136
	Additional Cost Above NED	171,863	55,154		227,017		171,863	55,154	227,017	0		205,191	65,928	271,119
TOTAL NON-FEDERAL COSTS		\$327,091	\$106,569		\$433,660		\$327,091	\$106,569	\$433,660	\$0		\$380,845	\$124,195	\$505,040
TOTAL FEDERAL AND NON-FEDERAL COSTS		\$516,430	\$172,500		\$688,930		\$516,430	\$172,500	\$688,930	\$0		\$593,738	\$198,232	\$791,970
GENERAL NOTES														
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(3) The Fully Funded cost estimate was prepared in compliance with Indexes used from CWCCIS reflecting OMB future rates Mar. 31, 2013														
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(A) CONTINGENCIES USED WAS DERIVED BY THE COST RISK ANALYSIS PROCESS AND IS BASED ON A 80% CONFIDENCE LEVEL														
CHIEF, COST ENGINEERING										TOTAL FEDERAL COSTS		DOLLAR(K)		
										TOTAL NON-FEDERAL COSTS		\$286,930		
PROJECT MANAGER										THE MAXIMUM PROJECT COSTS		\$505,040		
												\$791,970		
CHIEF, REAL ESTATE														